PRECIOUS METALS

AND

FILLING MATERIALS.

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CLAUDIUS ASH, SONS & CO., Ltd.,

5 to 12, BROAD STREET, GOLDEN SQUARE,

LONDON, W.

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TELEPHONE NUMBER: 420 GERRARD (4 LINES).

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ASH'S

GOLD FOILS, PELLETS,

AND

CYLINDERS.

Special attention is called to our Foils, Pellets, and Cylinders, in the firm belief that they are all that can be desired for Gold Filling. They are unsurpassed for purity and softness, and, by our present method of preparing them, we can guarantee uniformity of thickness and quality. We feel so sure that a trial will not only give satisfaction, but will also prove them worthy of continued use, that we have the fullest confidence in recommending them.

Claudius Ash, Sons & Co., Limited.

22501332974

Ash's Imperial Gold Foil.

Imperial Foil is manufactured from a specially prepared Precipitate of Pure Gold, and is perfectly Non-Cohesive. Being very soft it lends itself to the closest packing. It can be rendered Cohesive by annealing before use.

IMPERIAL GOLD FOIL
EXTRA SOFT
1/8 oz. No. 4
Manufactured from a Specially Prepared PRECIPITATE OF PURE GOLD.
CLAUDIUS ASH, SONS & Co
(1905) Ltd
6, 7, 8 & 9, BROAD STREET, GOLDEN SQUARE, LONDON, W.
BRANCH ESTABLISHMENTS
LIVERPOOL, 78, Mount Pleasant. MANCHESTER, 118a Oxford Street.
PARIS, 22, Rue du 4, Septembre. BERLIN, 9. Jägerstrasse.
HAMBURG, 62, 63, Gänsemarkt. VIENNA, 1. Spiegelgasse 2.
COPENHAGEN, 3, Boldhusgade. ST. PETERSBURG, 21. Kleine Morskoi.
NEW YORK, 30, East Fourteenth Street.

	s.	d.
Nos. 4, 5, 6, 8. . . . . per ⅛ oz.	16	6
„ „ . . . . . per oz.	128	0

Higher numbers supplied to order.

FARGUES & Co 2, SOHO SQUARE, LONDON, W.

Ash's Soft Non-Cohesive Gold Foil.

Our Soft Non-Cohesive Gold Foil has found great favour with those operators who prefer to work with a Non-Cohesive Foil, its purity being unsurpassed. As it can be made Cohesive by annealing immediately before using, the operator is in possession of a Foil which is either Non-Cohesive or Cohesive as required.

		s.	d.
Nos. 3. 4. 5. 6. 8.	per ⅛ oz.	16	3
„ „	per oz.	125	0

Higher numbers supplied to order.

Ash's Cohesive Gold Foil.

This Foil has proved its excellent qualities in the hands of the leading gold workers of the last fifty years, and is in use at all the Dental Schools; therefore, in mentioning it, we are only bringing to the notice of those who may not have tried it, a gold which is perfect as a Cohesive Foil and which cannot fail to give satisfaction.

	s.	d.
Nos. 3. 4. 5. 6. 8. 20. 30. 40. 60. . . . . per ⅛ oz.	16	3
,, ,, ,, ,, ... per oz.	125	0

Nos. 30 and 40 are largely used for making the Matrix for porcelain inlays by those Operators who practise the burnishing-in method and who employ Mineral Bodies which are low-fusing enough to be fired in a Gold Foil Matrix.

Ash's Imperial Gold Cylinders.

Extra Soft.

Made from the same Gold as the Foil on page 1.

In Sizes

1. 2. 3. 4.

	s.	d.
Nos. 1. 2. 3. 4. . . . . per 1/8 oz.	16	6
" " . . . . . per oz.	128	0

Ash's Soft Non-Cohesive Gold Cylinders.

CLAUDIUS ASH, SONS & Co (1905) Ltd
BROAD St GOLDEN SQUARE, LONDON.
SOFT NON-COHESIVE GOLD CYLINDERS
Style A. No 1/8 oz
Branches.
LIVERPOOL, MANCHESTER.
PARIS, BERLIN, VIENNA, HAMBURG.
COPENHAGEN, St PETERSBURG, CHRISTIANIA.
STOCKHOLM, MOSCOW, NEW YORK.

Style A. Loosely Rolled.

In Sizes

1. 2. 3. 4.

	s.	d.
Nos. 1. 2. 3. 4. . . . . per 1/8 oz.	16	6
" " . . . . . per oz.	128	0

Style B.–Closely Rolled. Same sizes and same price per ounce as style A.

Not less than half an ounce supplied.

Ash's Soft Non-Cohesive Gold Cylinders.

Style C. – Extra Dense.

In Sizes 1. 2. 3. 4.

	s.	d.
Nos. 1. 2. 3. 4. . . . . per ⅛ oz.	16	6
,, ,, ... per oz.	128	0

Ash's Pointed Cylinders for Root Filling.

In Sizes 1. 2. 3.

	s.	d.
Nos. 1. 2. 3. . . . . per ⅛ oz.	16	6
,, ,, ... per oz.	128	0

Ash's Gold Pellets (Cohesive and Non-Cohesive.)

Square in Sizes 1. 2. 3. 4.

	s.	d.
Nos. 1. 2. 3. 4. . . . . per ⅛ oz.	16	6
,, ,, ... per oz.	128	0

Pyramidal in Sizes 1. 2 3. closely rolled.

	s.	d.
Nos. 1. 2. 3. . . . . per ⅛ oz.	16	6
,, ,, ... per oz.	128	0

NOTE. All our Cylinders and Pellets can be made cohesive by annealing before using.

Ash's
Fibrous Gold Blocks.
Extra Dense.

We have pleasure in placing before the Profession an Extra Dense form of our Fibrous Gold Blocks.

In response to many requests, added to the great demand existing at the present time for rapid filling materials, we have recently experimented with this gold with the object of increasing its rapidity in condensation, and as a result we have been able to produce this Extra Dense form, which, we feel sure, will add very materially to the already wide popularity of our Fibrous Gold Blocks, and be a great advantage to those to whom a rapid-working filling material is a necessity.

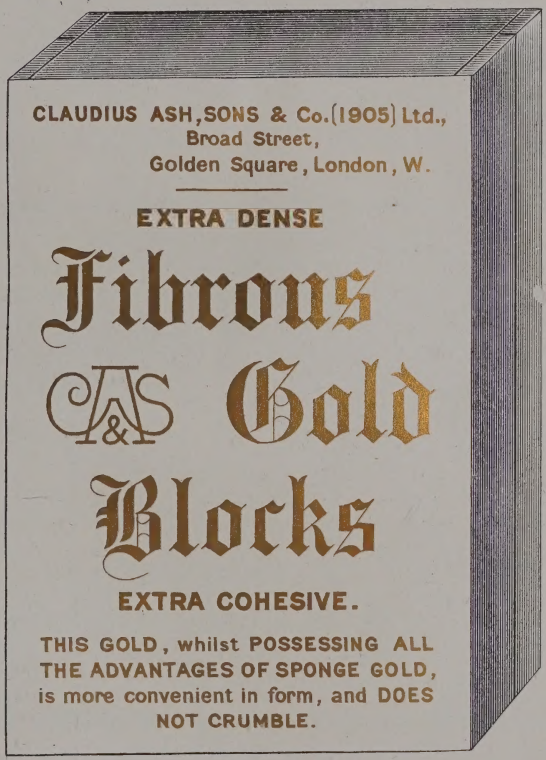
We desire to draw special attention to the fact that this gold, whilst possessing all the advantages of Sponge Gold, is much more convenient in form, does not crumble, is absolutely pure, and perfectly cohesive.

We have submitted samples of the Extra Dense to some of the prominent Members of the Profession, who have reported most favourably upon it.

Extract from a recent letter of a Prominent Member of the Profession.

"After using, on the advice of some of the finest operators in London, nearly every form of gold cylinders, blocks, etc., I have arrived at the conclusion that without exception your Gold Blocks stand absolutely unequalled."

Ash's,
Extra Dense,
Fibrous Gold Blocks – continued.


CLAUDIUS ASH, SONS & Co. (1905) Ltd.,
Broad Street,
Golden Square, London, W.
EXTRA DENSE
Fibrous
A&S Gold
Blocks
EXTRA COHESIVE.
THIS GOLD, whilst POSSESSING ALL THE ADVANTAGES OF SPONGE GOLD, is more convenient in form, and DOES NOT CRUMBLE.

Supplied in Boxes of assorted, and extra small sizes.

		s.	d.
Price	per ⅛ oz.	18	6
„	„ oz.	142	0
Sample Packet . .	per ½ dwt.	4	0

Ash's Gold Solders,
For Crown, Bar and Bridge Work.

		s.	d.
22-carat	per oz.	90	0
20-carat	„	80	0

Both these Solders are guaranteed absolutely up to carat. The 22-carat is specially adapted for soldering Fine Gold and the 20-carat for soldering 22-carat Gold. They are highly appreciated on account of their excellent colour.

		s.	d.
18-carat	per oz.	70	0
No. 00.	„	68	0

The 18-carat and the No. 00 Solders are prepared from highly approved formulæ and give universal satisfaction. Their colour renders them suitable for use with the highest grade golds.

Ash's Gold Solders for Plate Work.

		s.	d.
No. 1. Best Quality	per oz.	63	0
No. 2. Medium	„	57	0
No. 3. Most Fusible	„	50	0

These Solders are much esteemed for their liquidity when in a state of fusion and for the perfect union which they effect. Being prepared with the greatest care from old and well-proved formulæ, we can guarantee their purity and especially recommend their colour.

Fine Gold, flatted thin, for soldering Platinum, per oz. s. 92 d. 0

Solders of American Manufacture kept in stock.

KEETON SPONGE GOLD.

Among the advantages claimed for **Keeton Gold** are the following :—

1. It is guaranteed to be absolutely 1,000 Fine.
2. It is extremely cohesive.
3. There is no crumbling with it, consequently no waste.
4. Its edge-strength is perfect.
5. It retains its colour indefinitely.
6. It can be packed either with hand pressure or with the mallet; does not "rock" or "ball up," and the resultant filling is hard and steel-like.

Finely serrated pluggers are recommended for use with this gold, and we keep the special Keeton-Williams patterns in stock.

		s.	*d.*
Keeton Sponge Gold	per $\frac{1}{8}$ oz.	17	6
" " "	per oz.	135	0
Sample box, 12 grains		4	2

Sole Agents for Europe:

CLAUDIUS ASH, SONS & CO., Limited.

GOLD FOILS, SPONGE GOLDS, Etc.—

VARIOUS.

		s.	d.	Per ounce. £	s.	d.
Abbey's Gold Foil	per $\frac{1}{8}$ oz.	17	6	6	16	0
De Trey's Solila Gold	per pkt.	12	6		—	
Kearsing's Gold Foil	per $\frac{1}{8}$ oz.	16	6	6	8	0
Nedden's Sponge Gold	„	17	0	6	12	0
Rowan's Gold Foil, Decimal	per $\frac{1}{10}$ oz.	13	6		—	
„ „ „ „	per $\frac{1}{2}$ oz.	62	6		—	
„ Rolled Gold Foil for Inlay work	per $\frac{1}{8}$ oz.	14	7		—	
Steurer's Plastic Gold	per $\frac{1}{16}$ oz.	10	6	7	15	0
White's Globe Gold Foil	per $\frac{1}{8}$ oz.	16	6	6	8	0
„ Quarter Century Foil	„	16	6	6	8	0
„ Standardised Foil	„	14	7	5	12	6
„ Moss Fibre Gold	„	16	8		—	
„ „ „ „	per $\frac{1}{2}$ oz.	62	6		—	
Williams' Standard Gold Foil, $\frac{1}{2}$ oz. 56/3	per $\frac{1}{8}$ oz.	14	7	5	12	6
„ Crystal Surface Foil	„	16	8		—	
„ „ „ „ $\frac{1}{4}$ oz. 32/4	per $\frac{1}{2}$ oz.	62	6	6	0	10
„ Cohesive Electric Gold	per $\frac{1}{8}$ oz.	16	8		—	
„ „ „ „ $\frac{1}{4}$ oz. 32/4	per $\frac{1}{2}$ oz.	62	6	6	0	10
„ Gold and Platinum Foil	*Price fluctuates*				—	
„ „ „ Folds	„	„			—	
„ Crystalloid Gold	per $\frac{1}{8}$ oz.	18	9		—	
„ „ „	per $\frac{1}{2}$ oz.	70	10		—	
„ Crescent Gold Foil for Inlay work	per $\frac{1}{8}$ oz.	17	8	6	13	4
Watts' Crystal Gold, Mat Form	„	17	6	6	15	0
„ „ „ Strip Form	„	17	6	6	15	0
(Sample box of either kind, 12 grains, 4*s.* 2*d.*)						
Watts' Crystal Gold, Bulk Form	per $\frac{1}{8}$ oz.	17	6	6	15	0
„ „ Gold-Platinum Form	per $\frac{1}{16}$ oz.	12	6		—	
Wolrab's Gold Foil	per $\frac{1}{8}$ oz.	16	3	6	5	0

GOLD CYLINDERS, PELLETS, Etc.—

VARIOUS.

		s.	d.	Per ounce. £	s.	d.
Kearsing's Universal Gold Blocks	per $\frac{1}{8}$ oz.	16	6	6	8	0
Pack's Gold Cylinders	„	14	7	5	12	6
Rowan's Extra Pliable Gold Rolls	per $\frac{1}{10}$ oz.	15	0		—	
„ „ „ „	per $\frac{1}{2}$ oz.	73	0		—	
„ Decimal Gold Rolls	per $\frac{1}{10}$ oz.	13	6		—	
„ „ „ „	per $\frac{1}{2}$ oz.	62	6		—	
Williams' Standard Gold Cylinders, Style A	per $\frac{1}{8}$ oz.	16	8		—	
„ „ „ „ $\frac{1}{4}$ oz. 32/4	per $\frac{1}{2}$ oz.	62	6	6	0	10
„ „ „ „ Size $\frac{1}{4}$	per $\frac{1}{8}$ oz.	17	8		—	
„ „ „ „ $\frac{1}{4}$ oz. 34/5	per $\frac{1}{2}$ oz.	66	8	6	9	2
Wolrab's Gold Cylinders	„	16	6	6	8	0

HERBST'S GOLD CYLINDERS, PELLETS, FOILS, Etc.

The excellent qualities of Dr. Herbst's preparations of Gold for Fillings are so generally recognised that there is no need to enlarge upon their merits.

We are the Sole Agents for the Sale of them in the United Kingdom.

	Per $\frac{1}{8}$ ounce.		Per ounce.		
	s.	*d.*	£	*s.*	*d.*
Universal Gold Cylinders, Nos. 1–5 and assorted .	16	0	6	4	0
„ „ Pellets „ 1–5 „ .	16	0	6	4	0
Ordinary „ Cylinders „ 0–5 „ .	16	0	6	4	0
„ „ Pellets „ 0–5 „ .	16	0	6	4	0
„ „ Foil, Nos. 16, 20, 30, 60	15	6	6	1	6
„ „ „ „ 4, 5, 6, $7\frac{1}{2}$, 10	14	6	5	12	6
Gold Foil for Vulcanite work	16	6	6	7	6

No. 0 or No. 1 represents the largest size and No. 5 the smallest size in the Gold Cylinders and Pellets.

Other Gold Foils, Cylinders, Pellets, etc., obtained to order.

ASH'S TIN CYLINDERS.

	s.	*d.*
In sizes 1, 2, 3, 4, or assorted . . . . . per $\frac{1}{4}$-oz. pkt.	5	0

TIN FOILS.

	s.	*d.*
Ash's, Nos. 4, 6, 8 . . . . . per book	1	9
S. S. White's Chemically Pure . . . . . „	1	9
„ Extra tough, Nos. 4, 6, 8, 10, 20 . . . „	1	9
„ Globe, „ 4, 6, 8, 10, 20 . . . „	2	0

GOLD FOIL CASE.

In Leather, with spring snap. The inside of the Case consists of a pocket, large enough to take a book of foil, and a chamois leather pad for holding the pieces which are in use.

	s.	*d.*
Size, outside measurement, $5\frac{1}{8} \times 5\frac{1}{8} \times 1\frac{1}{8}$ inches, each	3	6

GOLD CYLINDER CASE.

In Leather, with spring snap. There are four divisions inside the Case for holding cylinders of different sizes, which are thus kept distinct and handy for use, saving the time spent in selecting cylinders from different packets; moreover, the Case preserves them from dust and other impurities.

	s.	*d.*
Size $4\frac{3}{4}$ inches by $3\frac{7}{8}$; depth 1 inch . . . . each	3	6

ASH'S GOLD PLATE AND WIRE.

Although a great many years have passed since our preparations of Gold Plate and Wire were introduced to the Profession, it may be well to mention why they are so much esteemed, and why they are and always have been so largely used.

The secret lies in their thorough fitness for dental purposes. **They are the outcome of a large number of careful experiments, which were specially conducted with a view to preventing discoloration in wear.**

They are guaranteed to be of standard quality, and we know that they will give satisfaction to those who do not now employ them, if they will give them a trial.

			s.	*d.*
Fine Gold Plate, 1 oz. and over	. . . . .	per oz.	90	0
„ „ „ cut to pattern	. . . . .	„	92	0
22-carat Plate for Crown work, 1 oz. and over	. . .	„	86	0
22 „ „ „ „ cut to pattern	. . .	„	88	0
20 „ Plate, 1 oz. and over	. . . . .	„	78	0
20 „ „ cut to pattern	. . . . .	„	80	0
18 „ „ 1 oz. and over	. . . . .	„	70	0
18 „ „ cut to pattern	. . . . .	„	72	0
18 „ Wire	. . . . .	„	72	0
*17 „ Plate, alloyed with Platinum, for bands	. .	„	78	0
*17 „ Wire, „ „ for clasps	. .	„	78	0
16 „ Plate, 1 oz. and over	. . . . .	„	64	0
16 „ „ cut to pattern	. . . . .	„	66	0
16 „ „ for bands or clasps	. . . . .	„	66	0
16 „ Wire, hard	. . . . .	„	66	0
16 „ „ in straight 6-in. lengths, for Tube Teeth, Blocks, Pins, etc.	. . . . .	„	66	0
16 „ „ half round, for clasps	. . . . .	„	66	0
16 „ „ soft, for riveting	. . . . .	„	66	0
16 „ „ „ for tying	. . . . .	„	66	0
16 „ Perforated, for strengthening Vulcanite pieces		„	70	0

Special Sizes of Plate and Wire supplied to order.

ASH'S GOLD SOLDERS—See page 8.

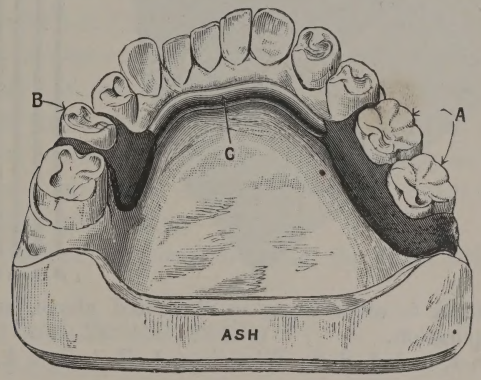
* Especially recommended for strength and elasticity.

ASH'S OVAL WIRE

FOR BAR LOWERS.

Of late years heavy **Round** and **Half-round** Gold Wire has been largely used for lower dentures.

It is said that a bar lower does not tend **to push the front teeth outwards,** as is often the case with an ordinary lower plate; moreover, it possesses a great advantage over a lower plate from a hygienic point of view, inasmuch as it is naturally and constantly cleansed by the action of the patient's tongue.



A and ***B***—Artificial Teeth mounted in Vulcanite.
C—Bar of Oval Wire.

In response to renewed demands, we have introduced **Oval** Wire for bar lowers, and those who have tried it prefer it to round or half-round wire for the purpose; it is less bulky, lies much more closely at the back of the teeth, and makes a much more rigid denture. It is supplied in the eight sizes here illustrated.

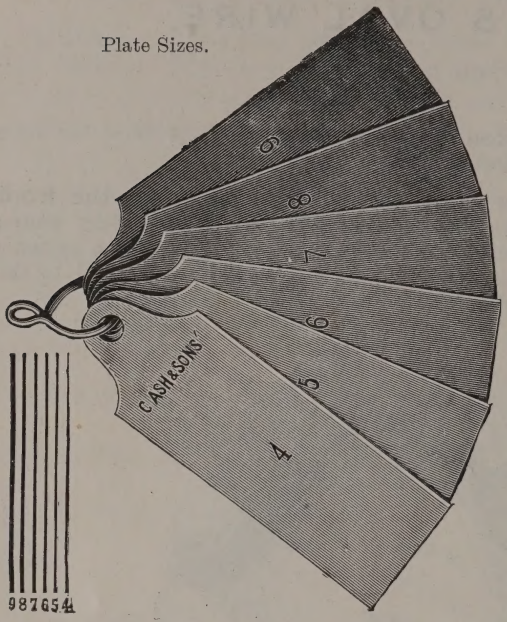
OVAL WIRE.

		s.	*d.*
Oval Wire in 16-ct. Gold, any size	per oz.	66	0
„ „ in 17-ct. „ alloyed with Platinum	„	78	0

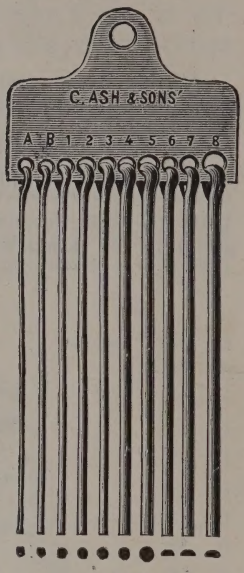
Oval Wire can also be had in Dental Alloy.

ASH'S PLATE AND WIRE SIZES.

Plate Sizes.



Wire Sizes.



Brass patterns to order from, as illustrated above, supplied free of charge on application.

Plate sizes, 4, 5, 6, 7, 8, 9 ; Wire sizes, A, B, 1, 2, 3, 4, 5, 6, 7, 8.

OLD METALS.

Full intrinsic value allowed for Old Gold, Silver, Platinum, etc., either in large or small quantities.

Old Amalgam.—Owing to the large number of cheap Alloys now in the market, it is very difficult to determine between their intrinsic value and the value of high-class Alloys, in the form of Old Amalgam, except by assay.

In consequence of this difficulty, the lowest quantity which we can consent to receive, and with which it is worth while to deal, is 10 ounces. As the cost of assaying is at least 2*s.* 6*d.* per lot, it is to the advantage of the Dentist to keep his Old Amalgam until it amounts to 10 ounces.

NOTE.

It is particularly requested that all parcels of Old Metals be advised by letter, and clearly marked with the name of sender.

ASH'S DENTAL ALLOY PLATE AND WIRE.

No. 1, first quality; No. 2, second quality.

Every care is taken to maintain the standard quality of our Dental Alloys, hence the excellence which has characterised them for upwards of half a century can always be relied upon.

We guarantee that the No. 1 contains $33\frac{1}{3}$ per cent. of Platinum and $66\frac{2}{3}$ per cent. of Silver, and that the No. 2 contains 25 per cent. of Platinum and 75 per cent. of Silver.

They both possess a very carefully prepared platinized surface and consequently retain their colour thoroughly well in the mouth.

They are supplied in Plate and Wire in all the sizes shown in our plate and wire sizes on page 14. Perforated Plate for strengthening vulcanite dentures is stocked in size 5 only, but **we are prepared to perforate not less than three ounces of any other size, to order.**

Owing to the fluctuations in the price of Platinum, we are unable to quote the prices of our Dental Alloys, but they are always kept as low as possible, consistent with quality.

Special quotations are given for both the Plate and the Wire in quantities.

First quality and Second quality:—

Plate cut to pattern	*Current prices on application.*
„ in sheet	
Wire in coil, over 1 oz.	
„ in lengths	
Perforated Plate for strengthening vulcanite dentures	

Platinum Plate Wire Foil Etc. Current

PLATINUM PLATE, WIRE, FOIL, Etc.

Hard and Soft:—

Plate in sheet and Wire in coil, in all stock sizes	*Current prices on application.*
Plate cut to pattern	
Wire in 6-in. lengths for Tube Work, etc.	
Gauze	
Plate and Wire alloyed with 10, 15, or 20 per cent. of Iridium to order . . .	

GUNTHORPE'S
SEAMLESS GOLD-CASED WIRE

(*PATENTED.*)

This Wire is specially prepared to be used for :

1. **The Anchorage of Diatoric Front Teeth**—see Fig. 1.
2. **Loop Clasps in Temporary Cases**—see Fig. 3.
3. **Vulcanite Strengtheners.**
4. **Regulation Cases.**
5. **Retainers on Gold or other Metal Plates to which Vulcanite is be attached**—see Fig. 4 and page 25.

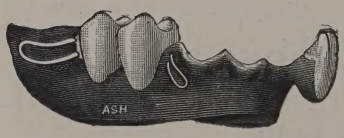
To obtain the proper degree of rigidity it is composed of an alloy of nickel and copper, covered with a 10 % seamless drawn casing of 15-carat gold to protect it from the action of the sulphur in the rubber, and from contact with the fluids of the mouth.

FIG. 1.

a. *b.* *c.*

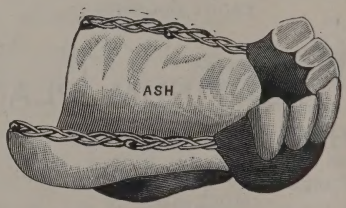
a—Loop of Gunthorpe's Seamless Gold-cased Wire. (Other forms of loops that may be desired can, of course, as readily be made in the work-room as the loop here illustrated.)
b—Diatoric Front Tooth with loop threaded through it.
c—Side view of same.

FIG. 3.



Partial Lower Denture with loop clasp made of Gunthorpe's Gold-cased Wire.

FIG. 4.



Upper Metal Plate with Gunthorpe's Extra Thin Gold-cased Wire plaited and soldered on the alveolar ridge, to serve as a Retainer for the vulcanite. The six front teeth are shown in the vulcanite, which is firmly gripped by the Retainer.

GUNTHORPE'S GOLD-CASED WIRE—*continued.*

It is very economical in use, since, bulk for bulk, its cost is less than one-sixth the price of 16-carat gold wire.

MOST IMPORTANT.

When Gunthorpe's Gold-cased Wire is used for loop clasps, etc., it is most important, after removing the case from the flask, before scraping and filing, and before polishing with pumice, to cover the clasps with a little Stents Composition, which can be quickly softened over a flame, to keep the gold casing intact and thus prevent the possibility of the nickel-copper core being exposed to the action of the oral fluids.

Gunthorpe's Gold-cased Wire is supplied in the following seven sizes :—

Extra Thin, specially adapted for Threading Diatoric Teeth (see Fig. 1), to secure firm anchorage in the vulcanite. *This Extra Thin Wire should be slightly annealed before using for this purpose.*

Our sizes A, B, 1, 3, 4, and 8, for Loop Clasps, Vulcanite Strengtheners, Regulation Cases, etc.

Also in thin oval form for Lower Strengtheners.

Put up in Hanks of one ounce and of half an ounce, in any of the above sizes; also in boxes of 1 dozen plaited lengths for Strengtheners and Retainers.

		s.	d.
Wire, Extra Thin and sizes given above . .	per oz.	15	0
„ „ „ „ .	per 5 ozs.	70	0

SOLE AGENTS:

CLAUDIUS ASH, SONS & CO., Ltd.,

5 to 12, BROAD STREET, GOLDEN SQUARE, LONDON, W.

To be obtained of all Dental Dealers.

PLATINUM FOR PORCELAIN WORK.

To simplify the ordering of Platinum Plate and Foils for all kinds of Dental Porcelain Work, we have thought it desirable to classify the various sizes and thicknesses which we supply, and to indicate their uses.

HARD PLATINUM PLATE.

Current prices on application.

For Full Dentures of Continuous-Gum Work, Plate No. 4 or No. 5.
For Partial Dentures of from four to eight Teeth, Plate No. 2.
For Small Gum Sections of two or three Teeth, „ „ 1.
For Removable Sections to attach to Plate, „ „ 0.

It is important to note that only *Hard Platinum* should be used for all the above-mentioned purposes.

SOFT PLATINUM FOILS.

For Diaphragms to be burnished on roots in Crown and Pivot Work :—
For Collar Crowns, Thick Foil ***A*** . . .
For Porcelain Crowns, Thin Foil ***B*** . .
For Inlay Work, all specially annealed :—
For Molars and Large Cavities, Thick Foil ***C*** . . . . . .
For Medium-size Cavities, Medium Foil ***D***
For Small-size Cavities, Thin Foil ***E*** . .

Current prices on application.

ASH'S SILVER PLATE, WIRE AND SOLDER.

		s.	*d.*
Sterling Silver Plate	per oz.	4	0
„ „ Wire	„	4	0
Solder	„	4	0
Fine Silver	„	3	6

ASH'S GOLD SPRINGS.

16-Carat, sizes 7 (weakest), 8, 9, 10, 11, 12, 13, 14 (strongest).

		s.	*d.*
PRICE	per oz.	76	0
„ under an Ounce	„	80	0

13-Carat, sizes $6\frac{1}{2}$ (weakest), $7\frac{1}{2}$, $8\frac{1}{2}$, $9\frac{1}{2}$, and $10\frac{1}{2}$ (strongest).

PRICE	per oz.	65	0
„ under an Ounce	„	70	0

Great care is bestowed upon the Manufacture of the above Springs, in order to obtain perfect elasticity and uniformity of strength. They have been extensively used by the Profession for the last seventy years.

SPRINGS FOR TRYING-IN, Etc.

		s.	*d.*
Silver	per pair	1	8
Silver Gilt	„	2	8

(A discount of 10 per cent. is allowed off 12 pairs of the above.)

Steel Gilt	per 6 pairs	2	6
Victoria Metal, extra heavily gilt	„ „	2	6

ASH'S GOLD AND OTHER SWIVELS AND WASHERS.

		s.	*d.*
Gold Swivels, 16-Carat	per set	9	0
„ 13-Carat	„	7	0
Dental Alloy Swivels with Gold Heads	„	6	6
Dental Alloy Swivels	„	4	6
„ „	per 6 sets *net*	24	0
Silver Swivels	per set	2	0

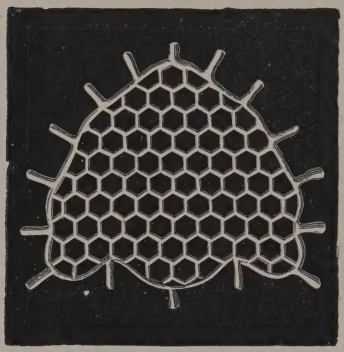
5 per cent. discount is allowed off 12 sets of the 16 and 13-carat gold swivels; 10 per cent. off 12 sets of the dental alloy with gold heads, the dental alloy, and the silver swivels.

Victoria Metal Swivels, extra heavily gilt	per set	0	8
Steel Gilt Swivels	„	1	0
Gold Washers, 16-Carat, round or square	„	1	0
Dental Alloy Washers, „ „	„	0	4

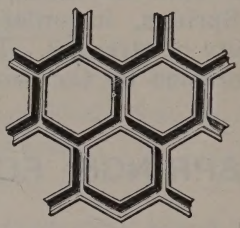
WALKER'S Patented STRENGTHENERS

The most scientific Strengtheners ever made.

FOR UPPER VULCANITE DENTURES.



Actual size—Front view.



Back view of meshes, enlarged.

The tests which we have made with this Strengthener have been most satisfactory; we find that it more than doubles the strength of vulcanite dentures.

It is so constructed that it has no tendency to cut or work through the vulcanite, and it does not expand or contract when subjected to strain, but bends with the vulcanite.

Extremely thin pieces can be made with it, and it is so light and lace-like that it practically adds no weight to a denture.

It can easily be bent with the fingers to conform to the shape of the model, or, if desired smaller, cut to any size, with Girdwood's crown scissors. Cutting through the meshes does not injure it as a strengthener.

The projecting lugs are intended for going between teeth, etc., but they can, of course, be readily cut off if not required. In bending these lugs into place they should not be bent at too acute an angle; they act best as holdfasts if only bent at a slight angle.

The Strengthener is made in Aluminium and Dental Alloy, also in thin and thick 16-carat Gold. The Aluminium should be completely embedded in the rubber; but the Dental Alloy and the 16-carat Gold, to add to the beauty of dentures, should be so placed that they will only just show when the vulcanite is polished.

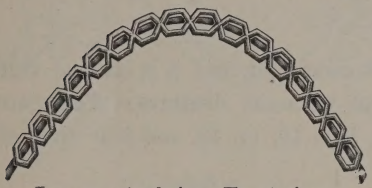
		s.	*d.*
In Aluminium	per doz.	6	0
„ Dental Alloy	each	3	0
„ 16-carat Gold, thin	„	5	0
„ „ „ thick	„	6	0

WALKER'S STRENGTHENERS—*continued.*

FEATURES:

1. **They more than double the strength of vulcanite dentures;**
2. **They do not cut through the vulcanite;**
3. **They are so interlocked in the vulcanite that perfect union is secured.**

FOR LOWER VULCANITE DENTURES.



Lower, actual size—Front view.

Back view of meshes and bar, enlarged.

In shaping Walker's Lower Strengthener to the model great care must be taken not to bend it too acutely. It can be bent outwards or inwards by gentle pressure, but violent bending will buckle one or more of the meshes which are soldered to the Bar *A*.

By itself it may be regarded as a skeleton which can be readily injured, but which, when covered with vulcanite, is so strong and elastic that it cannot be broken by any pressure brought to bear upon it in the mouth.

It is so constructed that it offers the greatest amount of strength with the smallest bulk of material. As in the Upper Strengthener, the rubber is interlaced in the meshes in such a way that when vulcanized the Rubber and Strengthener form one solid piece which yields with every movement of the denture, thereby giving it natural springiness and freedom from undue resistance ; in short, it is truly a Strengthener, and not an unyielding Stiffener.

To obtain the best results it should be sufficiently embedded in the rubber as only just to show when the case is polished.

Made in Dental Alloy throughout, and in 16-carat Gold with Dental Alloy Bar.

	s.	*d.*
Lower Strengthener in Dental Alloy	**3**	**3**
„ „ in 16-carat Gold with Dental Alloy Bar .	**5**	**6**

JÜTERBOCK'S
GOLD STRENGTHENERS
FOR
VULCANITE DENTURES.

(PATENTED IN ENGLAND, FRANCE, AND THE UNITED STATES.)

These Strengtheners are made of 16-carat gold, and it is claimed that they add very greatly to the strength of vulcanite dentures. There are nine sizes of **Uppers,** Nos. 1, 2, 3, 4, 5, 9, 10, 11, 12, and four sizes of **Lowers,** Nos. 6, 7, 8 and 8A.

They are exceedingly strong, without being too rigid; and as the metal is placed edgewise in the vulcanite, it takes the strain in the best direction.

They give a very nice finish to dentures, and can be polished without danger of polishing through the metal; moreover, as they are grooved on the external surfaces, the vulcanite adheres closely to the metal.

During the process of polishing the vulcanite the surface of the Strengthener becomes visible in it; this is useful to the Dentist as a guide in making the vulcanite of perfectly uniform thickness throughout.

By using the Strengtheners dentures can be made very thin; they are also much improved in appearance and rendered very serviceable.

An extremely solid denture can be obtained by soldering a Strengthener to the pins of the teeth and to gold bands by means of small pieces of gold wire; this style of work renders the denture absolutely rigid.

The **Lower** Strengtheners are supplied with Dental Alloy Bars as shown in Figs. 6 and 7, but Gold Bars can be had instead, *to order*, at an extra cost of 1*s.* each.

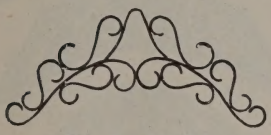
The price of Gold Bars for **Upper** Strengtheners is 1*s.* 6*d.* each, and of Dental Alloy, 1*s.* each.

If a Strengthener is fitted on a wax model, it must be annealed and boiled out in acid before being fixed in the rubber.

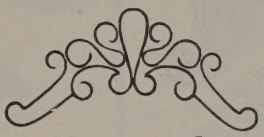
JÜTERBOCK'S GOLD STRENGTHENERS—*continued.*

No. 1—6*s.*

No. 2—5*s.* 9*d.*

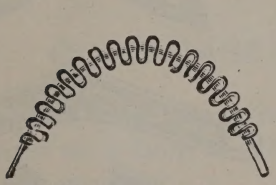


No. 3—5*s.* 6*d.*

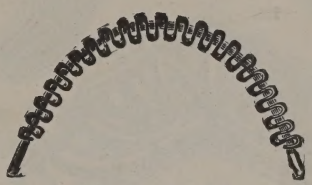


No. 4—5*s.* 3*d.*

No. 5—4*s.* 6*d.*



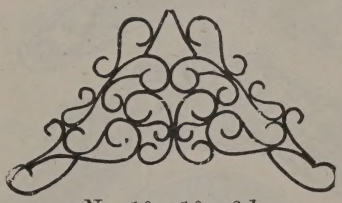
No. 6—5*s.* 3*d.*
WITH DENTAL ALLOY BAR.



No. 7—5*s.* 9*d.*
WITH DENTAL ALLOY BAR.

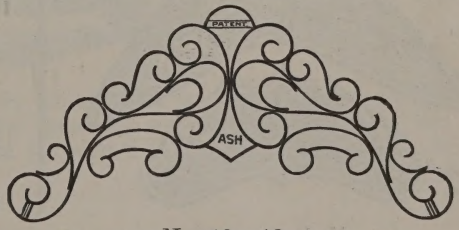
Extra size Lowers, No. 8—6*s.* 6*d.*; No. 8A—7*s.* 6*d.*

No. 9—10*s.*



No. 10—10*s.* 6*d.*

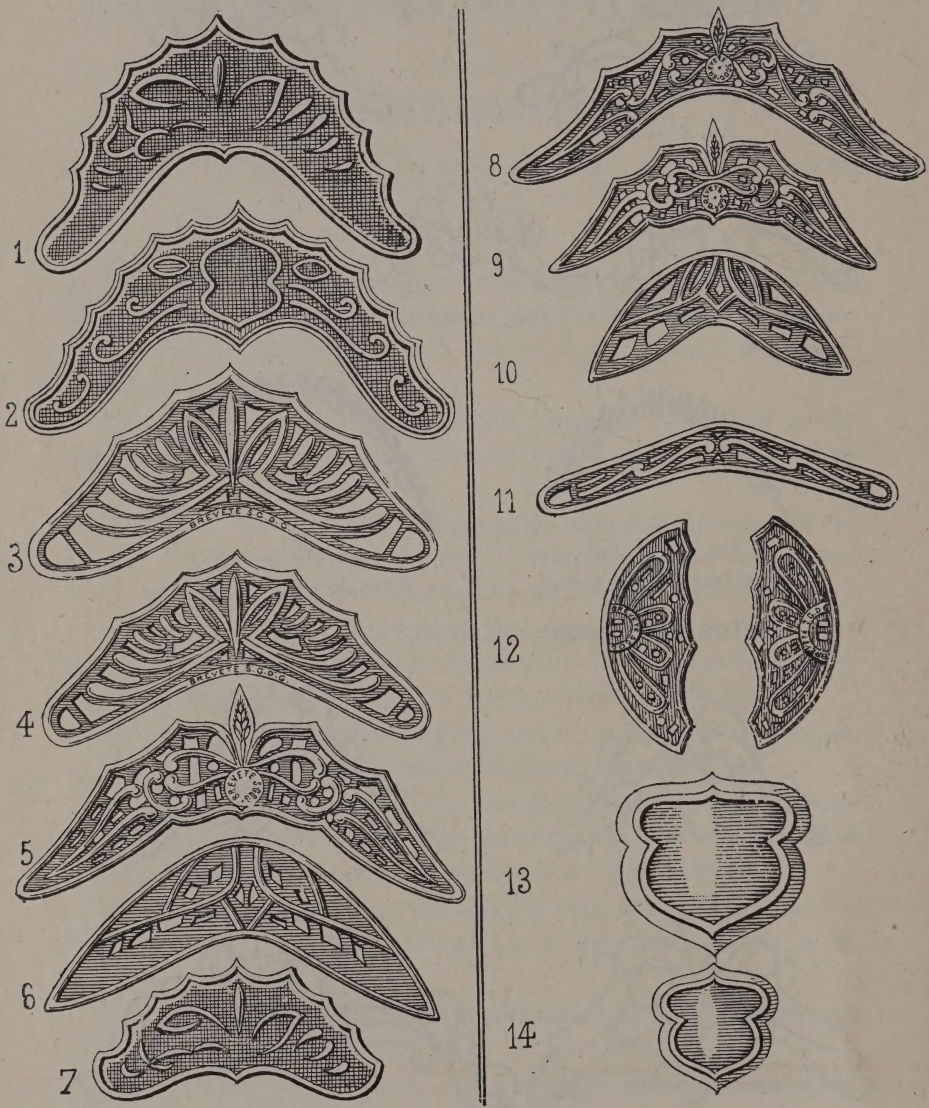
No. 11—11*s.* 9*d.*



No. 12—12*s.*

JÜTERBOCK'S GOLD STRENGTHENERS—*continued.*

FRENCH PATTERNS.



Made in 16-Carat Gold and Dental Alloy—see next page.

JÜTERBOCK'S GOLD STRENGTHENERS—*continued.*

FRENCH PATTERNS.

Perforated :

No.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
In 16-carat Gold	12/10	11/3	10/5	9/3	8/10	8/0	6/5	6/5	5/8	5/3	5/3	4/5
In Dental Alloy	8/0	8/0	7/0	6/0	6/0	6/0	5/0	4/0	4/0	4/0	4/0	3/0

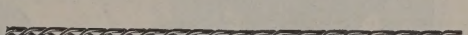
Solid : No.	1.	2.	7.
In 16-carat Gold	14/5	12/10	7/3
In Dental Alloy	8/0	8/0	5/0

Air Chambers : No.	13.	14.
In 16-carat Gold . .	7/3	5/6
In Dental Alloy . .	4/0	3/9

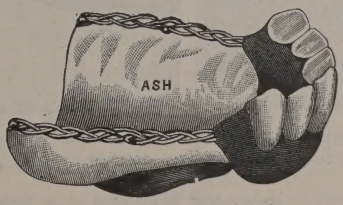
GOLD-CASED PLAITED WIRE.

For use as a Strengthener in Vulcanite Lowers, and as a Retainer on a Gold or other Metal Plate to which Vulcanite is to be attached.

This illustration represents two lengths of the extra thin size of Gunthorpe's Patented Gold-cased Wire plaited together.



It is a very useful and inexpensive form of Strengthener for Vulcanite Lowers, the plaiting giving the Vulcanite an absolutely secure hold of the metal.

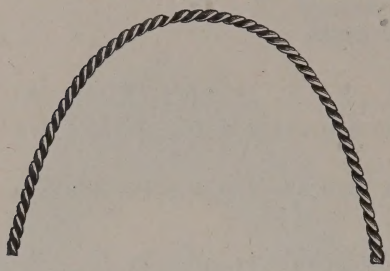


In this second illustration the plaited wire is shown soldered on the alveolar ridge of an upper metal plate to serve as a Retainer for the Vulcanite. The six front teeth are shown in the Vulcanite, which is firmly gripped by the Retainer.

	s.	*d.*
PRICE per box of one dozen plaited lengths	3	0

ASH'S METAL BARS.

FOR STRENGTHENING LOWER VULCANITE DENTURES.



In using a Metal Bar for strengthening a Lower Vulcanite Denture, it is important to see that it is suitable for its purpose. If it is too rigid it may weaken or even crack a plate, and if it is too soft it will fail to restore the plate to its normal shape, should it be subjected to undue strain in any direction.

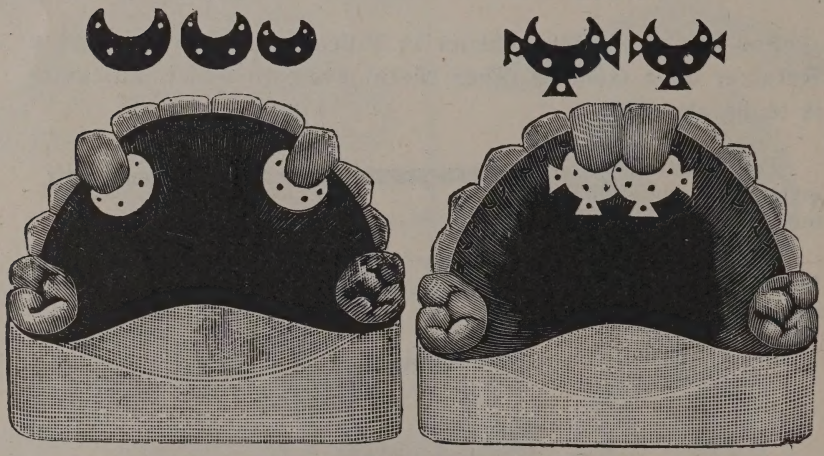
These Bars possess just enough elasticity to give with the plate, and are, therefore, **strengtheners** in the strictest sense of the word.

		s.	*d.*
In Aluminium	per doz.	0	9
,, White Metal	,, ,,	1	0
,, Dental Alloy	,, ½ doz.	9	0

MÜLDENER'S METAL INSETS.

FOR VULCANITE DENTURES.

FIG. 1. FIG. 2.



In addition to the **simple** Sickle-shaped Metal Insets, Fig. 1, first introduced, Zahnarzt Müldener has now brought out an improved pattern with **winged** attachments, Fig. 2.

The **simple** pattern serves to lessen the likelihood of a breakage of the vulcanite behind a single tooth or where several teeth stand together, but the **winged** pattern can be more firmly secured to the vulcanite.

		Fig. 1, Simple.		Fig. 2, Winged.	
		s.	*d.*	*s.*	*d.*
Composition Metal, in assorted sizes	per doz.	0	10	1	0
Victoria ,, ,, ,,	,,	1	0	1	4
,, ,, ,, Gilt, in assorted sizes	,,	1	3	1	7
Gold, 14-carat, in assorted sizes	,,	10	0	14	0

AMALGAMS FOR FILLINGS.

ASH'S IMPERIAL AMALGAM.

The Best in the Market.

We claim that our Imperial Amalgam is absolutely the finest high-class alloy in the market. From numerous comparative tests which we have made, we are able to state **most emphatically,** and without fear of contradiction, that it contains **considerably more gold** than any of the so-called "gold amalgams" which are offered to the Profession.

It works very smoothly, sets perfectly hard, does not expand or contract, possesses great edge strength and density, and retains its colour in the mouth better than any other amalgam.

Supplied in 1-oz., ½-oz., and ¼-oz. packets, also in 5-oz. and 10-oz. cut-glass stoppered bottles.

		s.	*d.*
PRICE	per oz.	25	0

A discount of 10 per cent. is allowed off 5 ounces;
15 per cent. off 10 ounces.

ASH'S BEST QUALITY AMALGAM.

This Amalgam—Filings for Metallic Paste—has been very extensively used for sixty years by Dentists in all parts of the world, during which time numerous testimonials have been received concerning its excellence and durability. **It contains more gold than any other Amalgam in use,** except our Imperial, and possesses all the properties of a first-class filling material.

In a letter dated July, 1889, Mr. G. Robinson, of Oamaru, Otago, N.Z., *says* :—"It may perhaps interest you to know that Mr. Coxon, of Birkenhead, England, filled one of *my own central incisors* with your best Amalgam twenty-nine years ago, and that the said incisor remains intact to this day, which fact is a practical test and proof of its excellence."

1oz. 22/- Best Quality.

Filings for
Metallic Paste
FOR STOPPING TEETH.

C. ASH & SONS, LTD
5, 6, 7, 8 & 9, Broad Street, Golden Square, LONDON, ENGLAND.

BRANCHES
LIVERPOOL, MANCHESTER, PARIS, BERLIN, HAMBURG, VIENNA,
COPENHAGEN, STOCKHOLM, CHRISTIANIA,
St PETERSBURG, MOSCOW, BUDA PESTH & NEW YORK.

		s.	*d.*
Supplied in ¼-oz., ½-oz., and 1-oz. envelopes . .	per oz.	22	0
And in ½-oz. and 1-oz. bottles	„	22	0
Also in 5-oz. and 10-oz. cut-glass stoppered bottles	„	22	0

Directions for use accompany each packet.

A discount of 10 per cent. is allowed off 5 ounces;
15 per cent. off 10 ounces.

ASH'S BEST QUALITY AMALGAM.

EXTRA FINE CUT.

For use in combination with cement, prepared to meet the wishes of those Operators who desire a specially fine-grained Amalgam for combination fillings.

The following directions for making a metallic cement are given by Dr. Ottolengui on page 62 of his **Methods of Filling Teeth**:—

"The fine phosphate powder is mixed with the fine filings of an alloy, and afterwards used in connection with the liquid, exactly as plain oxyphosphate fillings are made. The presence of the metal interferes with the mixing only a little, and the usual putty-like consistency may be attained. A filling of this kind is to be placed and allowed to set two or three days. It may then be polished by using a smooth stone in the engine."

		s.	*d.*
Supplied in ½-oz. and 1-oz. envelopes . . .	per oz.	22	0
And in ½-oz. and 1-oz. bottles	„	22	0
Also in 5-oz. and 10-oz. cut-glass stoppered bottles	„	22	0

Directions for use accompany each packet.

A discount of 10 per cent. is allowed off 5 ounces;
15 per cent. off 10 ounces.

ASH'S SECOND QUALITY AMALGAM.

FILINGS FOR METALLIC PASTE.

We claim that this is the best cheap Amalgam of the day. It is not only unequalled by any which is sold at a similar price, but superior to many which are sold at a higher price. It has been largely used by the Profession for more than **fifty years**, and has always been recognised as a good and reliable filling material.

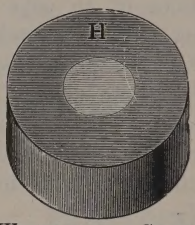
		s.	*d.*
Supplied in ½-oz. and 1-oz. envelopes	per oz.	9	6
And in ½-oz. and 1-oz. bottles	„	9	6
Also in 5-oz. and 10-oz. cut-glass stoppered bottles	„	9	6

Directions for use accompany each packet.

A discount of 10 per cent. is allowed off 5 ounces;
15 per cent off 10 ounces.

ASH'S C. A. S. ALLOY

IN FILINGS
OR SHAVINGS.



WEDELSTAEDT STEEL TEST-TUBE FILLED WITH C. A. S. ALLOY.

C. A. S. ALLOY, if used according to directions and inserted in a carefully prepared cavity, yields a permanent filling.

C. A. S. ALLOY is a high-grade alloy, an accurate preparation from a formula based upon the researches of Dr. Black.

C. A. S. ALLOY is annealed by slow heat after it is cut, and thus brought to its minimum point of shrinkage. Scientific tests show the following results as measured by the micrometer :—

Contraction 0
Expansion . . . . . $\frac{1}{10000}$ of an inch.

This very slight expansion is an advantage in a plastic filling material, and has been specially worked for.

C. A. S. ALLOY possesses good edge strength and keeps its colour well. It is made in both **Quick-Setting** and **Slow-Setting.** The **Quick** sets more rapidly than the very plastic Alloys, hence we advise that the cavity be fully prepared and the required instruments be conveniently placed, so that the Operator will have nothing to do but fill the cavity after the Alloy is mixed. We also suggest the use of a matrix in contour and approximal fillings.

C. A. S. ALLOY is supplied in bottles, Quick or Slow-Setting, as under :—

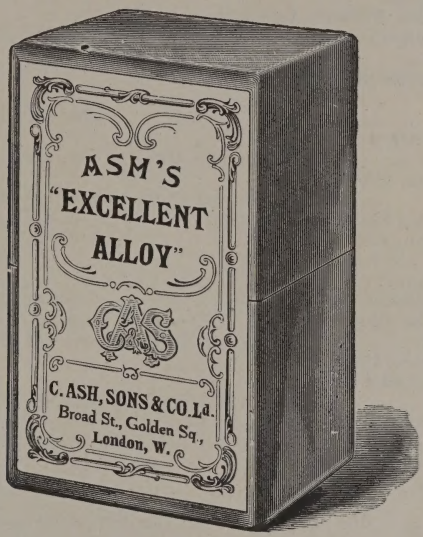
	s.	*d.*
Half-ounce	6	3
One ounce	12	6
Five ounces	52	0
Ten „	100	0

It is also supplied in 5-oz. bottles.

Unless Slow-Setting is specially ordered, we always send the Quick.

ASH'S EXCELLENT ALLOY.

For some considerable time past there has been a growing demand for cheap Alloys, or Amalgams as they are familiarly called, both in the United Kingdom and abroad.



With the object of making an alloy of uniformly reliable quality at as cheap a price as the cheapest on the market, we devoted our closest attention to a long series of experiments, and we are pleased to say we succeeded in producing this cheap alloy, which is unequalled for price and quality.

While **Ash's Excellent Alloy** is offered with the fullest confidence as a cheap alloy, we do not, of course, for one moment suggest that it is equal in quality to our higher priced alloys which have been before the Profession for so many years; we simply claim that it is superior to all other cheap alloys.

		s.	*d.*
Ash's Excellent Alloy	per oz. bottle	6	0
,, ,, ...	in lots of 5 ozs.	27	0
,, ,, ...	,, 10 ,,	50	0

Sample of any of our Amalgams or Alloys, post free, on application.

AMALGAMS, VARIOUS.

	In packets of	½ ounce.	1 ounce.
		s. *d.*	*s.* *d.*
Arrington's New Amalgam	5 ozs., *net* 29/2; 10 ozs., *net* 56/8	3 0	6 0
Caulk's Par-Excellence Alloy		5 3	10 6
„ White Alloy		7 3	14 6
Damman's Amalgam		9 0	18 0
„ 1,000 lbs. Pressure Amalgam		—	20 0
Davis's Gold Amalgam		12 6	25 0
„ No. 2 „		6 6	13 0
Eckfeldt and Dubois' Standard Alloy		12 0	24 0
Fellowship Alloy		—	14 0
„ „	5 ozs., *net* 60/0	—	—
Flagg's Contour Alloy		—	12 0
„ „ „	5 ozs., *net* 52/0; 10 ozs., *net* 93/0	—	—
„ Submarine Alloy		—	10 0
„ „ „	5 ozs., *net* 41/6; 10 ozs., *net* 75/0	—	—
Fletcher's Perfected Standard Amalgam		10 0	20 0
„ Platinum and Gold Alloy		10 0	20 0
Flint-Edge Gold Alloy		7 6	15 0
Nickold's Amalgam		6 3	12 6
Palladium, Precipitated	¼ oz., 40/0	80 0	160 0
S. S. White's Alba Alloy		3 2	6 0
„ „ „	5 ozs., *net* 29/2; 10 ozs., *net* 56/8	—	—
„ Globe Alloy		—	8 4
„ Splendid Alloy		—	6 0
„ „ „	5 ozs., *net* 29/2; 10 ozs., *net* 56/8	—	—
„ True Dentalloy		—	6 0
„ „ „	5 ozs., *net* 29/2; 10 ozs., *net* 56/8	—	—
Welch's Gold and Platinum Alloy		5 0	10 0
„ Amalgam		4 0	8 0

10 per cent. discount allowed off 5 ounces of one or more kinds.

Arrington's, Fellowship, Flagg's, and S. S. White's in 5- and 10-ounce lots as above are strictly *net*.

Other Amalgams obtained to order.

KIRKBRIDE'S CLEANSED COPPER AMALGAM.

Copper Amalgam is the only amalgam by which we can make an absolutely watertight filling, and if cleansed from iron and other impurities, it makes a grand filling for back teeth.

Kirkbride's Amalgam is made by a special depositing process, and is therefore pure, as it passes through a series of grades of washings, so that none is required before inserting in cavity. It is therefore absolutely free from acid. Each relay is tested before sending out.

		s.	*d.*
PRICE	per oz.	4	0
„	per 5 ozs.	17	6

MERCURY FOR AMALGAM FILLINGS.

		s.	d.
Ash's distilled and chemically purified	per lb.	7	6
„ „ „	per ½ lb.	4	0
„ „ „	3 ozs. in glass bottle	1	8
„ „ „	1 oz. „	0	8
„ „	1 oz. in wooden drop bottle	1	0
Ash's electrically purified	per oz.	1	6
„ „ „	2 ozs.	2	9
„ „ „	3 ozs.	4	0
„ „ „	per lb.	18	6
„ „ „	per ½ lb.	9	6
Davis's „	1 oz.	2	0
„ „ „	2 ozs.	3	10
Fletcher's chemically „	per bot.	1	0
„ electrically „	„	2	0

NOTE.—It is absolutely necessary that pure Mercury be used for Amalgam Fillings. The Mercury commonly sold as pure is known to contain Lead, Antimony, etc., which impurities cannot be separated by mere distillation, and if used with the Fillings alters the compound and causes it to become discoloured in the mouth.

ASH'S GLOBE COPPER AMALGAM.

(From the formula of
Prof. W. D. MILLER and Dr. JUNG.)

Alloyed with 2½ per cent. of Tin. Recommended for colour, setting properties, and hardness.

	s.	d.
PRICE, per box of 34 grammes	3	0

Ten per cent. allowed off 5 boxes.

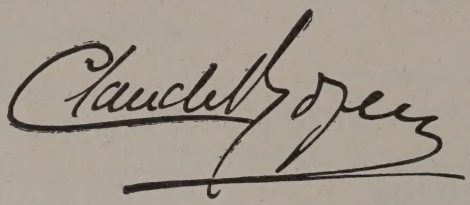
This Amalgam of Copper and Tin is the outcome of many experiments on the part of the above-named eminent Professor and his colleague.

At the time of its introduction, Professor Miller, in an exhaustive paper describing the experiments (*Cor. Blatt.*, Apr. '94), said that the addition of tin in these proportions, viz., 2½ to 3 %, was clearly proved to have the effect of lessening the chemical dissolution of the copper in the fluids of the mouth. Further, that it favourably affected the colour of the fillings, which remained grey in contrast to the black of the copper amalgams without tin. Extensive experiments for detection of shrinkage were carried out, and we have evidence from Germany, where it has been largely used since 1893, to show that in actual practice the conclusions drawn from the experiments as to its value as a filling material have been confirmed.

ROGERS' COPPER AMALGAM.

This Amalgam is very carefully prepared, being untouched by the hand during the process of manufacture, and keeps its colour well in the mouth.

Note that every genuine packet of Rogers' Copper Amalgam bears this signature:



	s.	d.
Rogers' Copper Amalgam in 1-oz. packets	4	0
„ „ „ in 5-oz. glass-stoppered bottles, per bottle	17	6

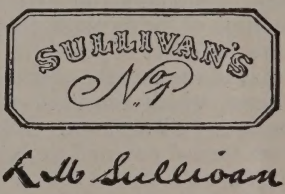
An L.D.S. says: "I am very pleased with Rogers' Copper Amalgam: it does not seem to shrink at all, and is excellent for crown work. By lining the cavity with a thin paint of gutta-percha and chloroform the Amalgam will not discolour the tooth."

THE ORIGINAL COPPER AMALGAM.

Established over 50 years.

L. M. SULLIVAN'S CEMENT.

None genuine which does not bear the following label and signature:—

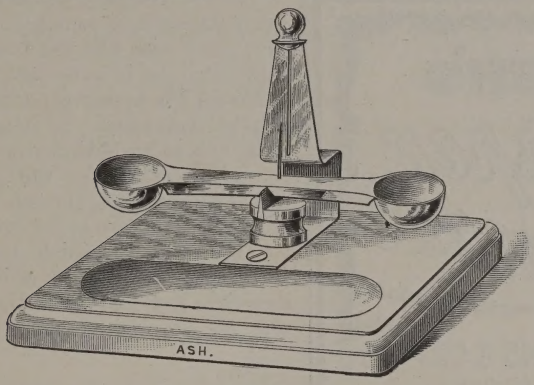


L M Sullivan

Price 4/6 per oz.

ASH'S AMALGAM BALANCE

Complete with Weights, 1, 2, 3, 4, 5, 10, 15, 20 Grains.



The weighing of alloy and mercury in amalgam work was first introduced by the late Mr. THOMAS FLETCHER, of Warrington, and its importance has been more and more recognised since the late Dr. FOSTER FLAGG emphatically endorsed Mr. FLETCHER'S method in his excellent work on Plastics and Plastic Filling.

Dr. FLAGG says: "The use of scales, instead of being troublesome, can hardly fail, upon trial, to be accepted as the easiest and only reliable way for promptly securing accurate proportions in the preparation of amalgam."

The Amalgam Balance here illustrated is provided with weights, and the proportions *by weight* of alloy and mercury required for yielding the best results with our

IMPERIAL AMALGAM; AMALGAM 1 (known as Best Filings); **AMALGAM 2** (known as Second Filings); and

C. A. S. ALLOY,

are stated on the base of the Balance.

For other Amalgams, a few experiments will show the relative proportions of alloy and mercury to be used.

DIRECTIONS FOR USE:

Put the required weight in the left-hand cup of the Balance and the filings in the right-hand cup, and when the correct weight is obtained, empty into a deep glass mortar, ground inside. Follow the same procedure with the mercury; then thoroughly amalgamate filings and mercury with a glass pestle, smooth all over—not ground at the end.

When correct proportions are used thorough amalgamation can be obtained in the mortar, there is no excess of mercury to be squeezed out, and the amalgam need not be handled, but can be carried direct from the mortar to the cavity, and carefully packed with as large, finely serrated instruments as the cavity will admit.

	s.	*d.*
Amalgam Balance with Weights	**8**	**6**

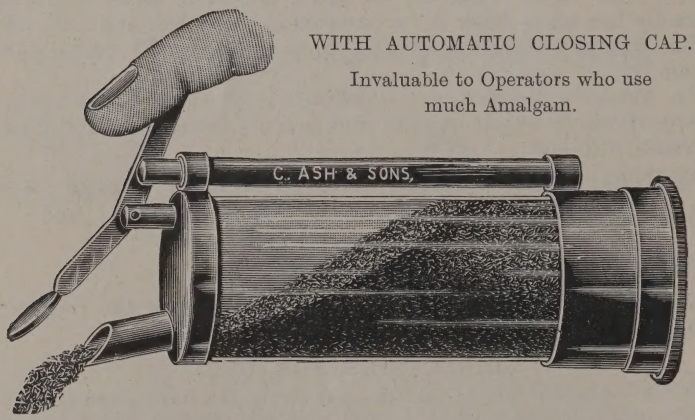
ASH'S COPPER CEMENT.

Ash's Copper Cement possesses great strength, is remarkably adhesive, does away with the necessity for heavy undercuts, and is easily packed; further, it has all the preservative properties of Copper Amalgam. It is mixed in the same way as an ordinary cement.

It is suitable for the preservation of deciduous teeth, for the building-up of teeth which are badly broken down, for filling teeth which are generally susceptible to decay or which are very sensitive, and for the setting of metal caps and porcelain or metal crowns.

		s.	d.
PRICE	per packet	6	3
Separately: Powder	per bottle	4	2
Liquid	„	2	1

MAMLOK'S AMALGAM SPRINKLER.



WITH AUTOMATIC CLOSING CAP.

Invaluable to Operators who use much Amalgam.

The Sprinkler is made with a firm base, which serves as a stand, and can be unscrewed for filling the glass container.

Its use does away with the trouble of having to uncork a bottle every time a mix is to be made; one hand is quite sufficient to hold and work it, and time is saved as well as filings.

It is made of metal, nickel-plated, with glass container.

	s.	d.
PRICE, empty	3	6

GUTTA-PERCHA FOR FILLINGS.

JACOB'S PERMANENT GUTTA-PERCHA.

(From the Formula of the late H. L. JACOB, M.R.C.S.)

Jacob's Permanent Gutta-Percha has been before the Profession for nearly sixty years, and is recognised as a most excellent preparation.

It is supplied in Tablets and Pellets as under :—

No. 1—Whitish.

No. 2—Brownish, for teeth that are somewhat discoloured.

		s.	*d.*
Tablets, in boxes, either shade	per box	4	0
Pellets, in bottles, „ „	per bot.	4	0

Directions for use accompany each box or bottle.

ASH'S
PERMANENT GUTTA-PERCHA PELLETS.

Prepared in two colours—Light Pink and White.

		s.	*d.*
Either kind	per bottle	2	0

FLAGG'S
PERMANENT HAND-MADE GUTTA-PERCHA.

Supplied in High, Medium, and Low Grade.

		s.	*d.*
Any grade	per packet	4	2

ASH'S
GLOBE TEMPORARY GUTTA-PERCHA.

For filling teeth, sealing-in dressings, separating teeth, pressing the gum away from roots that are to be crowned, etc.

Globe Gutta-Percha softens quickly, is very easily manipulated, does not ball up in working, adheres perfectly to the walls of the cavity, and sets very hard.

Supplied in one-ounce boxes, pink, grey, or assorted.

		s.	*d.*
Price	per box	2	0

TO SOFTEN GUTTA-PERCHA FOR FILLINGS.

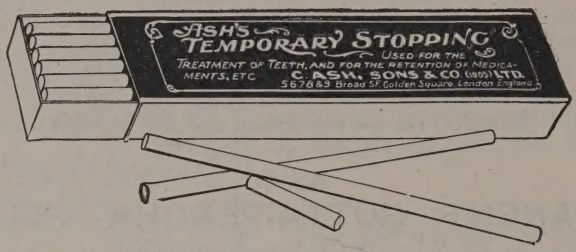
Wave quickly over the flame of a spirit lamp for a few moments, and be careful not to burn it.

Nearly every Dental Gutta-Percha can be packed with either cold or warm instruments.

ASH'S TEMPORARY GUTTA-PERCHA STOPPING.

Invaluable for covering dressings, for separating teeth, and for pressing the gum away from roots that are to be crowned.

It softens at a low temperature, works easily, hardens quickly, adheres tenaciously to the walls of cavities, has no tendency to ball up, is not too sticky to be manipulated with ease, and yields a beautifully smooth surface.


ASH'S
TEMPORARY STOPPING
USED FOR THE
TREATMENT OF TEETH, AND FOR THE RETENTION OF MEDICAMENTS, ETC.
C. ASH, SONS & CO. (1903) LTD.
56 & 57 & 58 Broad St. Golden Square, London, England.

DIRECTIONS FOR USE:

To soften, wave rapidly over the flame of a spirit lamp for a few moments, being careful not to burn the material. It can be packed either with warm or cold instruments.

Supplied in one-ounce boxes, Pink, White, or Assorted.

		s.	*d.*
PRICE	per box	2	0

ASH'S GUTTA-PERCHA POINTS FOR FILLING ROOT-CANALS.

These Points, which are made from the highest quality of gutta-percha, are hand rolled by skilful workers. They are dense, tough, perfectly shaped, and sufficiently flexible to admit of being inserted in the most tortuous of root-canals.

Supplied in boxes containing 150 Points, as under :—

White—All Large, all Medium, all Small, or assorted in Large, Medium, and Small.

Pink—Only in assorted sizes.

	s.	*d.*
Per box . : . . .	1	3

GILBERT'S TEMPORARY STOPPING.

For the Retention of Medicaments used in the Treatment of Teeth, for Filling Nerve-Canals, etc.

The stopping is tight if properly manipulated, and serves the purpose of a temporary filling for weeks or months according to the position of the cavity. It become plastic at a low degree of heat, and firmly adheres to the tooth. There is no material that serves the purpose better for a trial filling for treated teeth.

Directions :—Cut into pellets, soften with heat and apply to the cavity, pressing to position with cold instruments, sealing the edges with hot ones. **For Setting Gold Crowns,** burnish a piece of No. 40 tin-foil around the root, letting it extend under the gum and overlapping it for protection from the heat ; fill the crown with stopping, heat, and press to position, cooling with water. For filling nerve-canals, roll into cones, cut and use as other pellets.

Supplied in boxes—White, Pink, and Assorted.

		s.	*d.*
PRICE	per box	2	0

GUTTA-PERCHA TABLETS, PELLETS, CYLINDERS, POINTS—VARIOUS.

		s.	*d.*
Caulk's. In Tablets, Pellets, and Cylinders ; also in Points for root-filling. In ½-oz. boxes	per oz.	8	0
Excelsior Gutta-Percha in Sticks. In ½-oz. boxes .	„	4	2
„ „ in Pellets. „ . .	„	4	2
Hill's Gutta-Percha in Tablets. In ½-oz. boxes . .	„	16	0
Premium Gutta-Percha in Sticks. In ½-oz. boxes. .	„	4	2
„ „ in Pellets. „ . .	„	4	2

GUTTA-PERCHA NERVE-CANAL POINTS.

These Points are made of "Premium" Gutta-Percha. They are symmetrically tapered and uniform.

Put up in boxes containing 150 Points.

		s.	*d.*
PRICE	per box	1	0

Other Gutta-Percha Filling Materials supplied to order.

CEMENTS FOR FILLINGS.

ASTRAL TRANSLUCENT CEMENT.

(DR. RAWITZER'S.)

ASTRAL TRANSLUCENT CEMENT is an ideal Silicate Filling Material quite distinct from filling materials of the oxyphosphate class. Since it was introduced it has been greatly improved, and *is now being used with satisfaction by thousands of Dentists.*

FEATURES.—It is similar in appearance to the natural enamel, can hardly be detected in a tooth in the mouth if the right shade is used, does not shrink, is extremely strong, is not readily affected by the fluids of the mouth, wears well, and is greatly admired by both Operator and Patient.

☞ One important and valuable feature in the behaviour of Astral Cement, after it has been mixed to the consistency of new putty, is this :—

It remains soft on the mixing slab sufficiently long for one or two cavities to be filled with ease, and yet becomes hard enough in the mouth in a few minutes, under the influence of the warmth of the body, to withstand the action of the oral fluids, although it does not set too quickly to prevent it being thoroughly burnished to an enamel-like surface.

ASTRAL CEMENT—*continued.*

In selecting a shade the shade-guide should be used, as the appearance of the powder in the bottle is deceptive.

The bottles should be kept well corked when they are not in use.

Full directions for use are supplied with each packet.

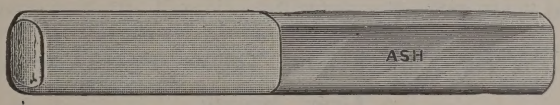
Supplied in the following eight shades :—

No. 1. WHITISH.	No. 4. PEARL GREY.
„ 2. PALE YELLOW.	„ 4A. LIGHT PEARL GREY.
„ 2A. GREENISH YELLOW.	„ 5. GREY.
„ 3. YELLOW.	„ 6. BROWN.

		s.	*d.*
Small Packet, for trial, any Shade	per packet	4	0
One-Shade Packet, any Shade	„	10	0
Four-Shade Packet—Powders 1, 2, 3, 4, and two bottles of Liquid	„	15	0
Eight-Shade Packet—all eight Shades of Powder mentioned above, and four bottles of Liquid	„	30	0

MAXIL.

A specially prepared Antiseptic Composition for polishing every kind of Oxyphosphate Cement and Silicate Cement Filling.



Directions for Use:

When the filling is complete, mount a clean cuttle-fish disc on an engine mandrel, and while it is running touch it with Maxil and apply to the filling. It will immediately produce a fine polish, and at the same time protect the surface of the filling from the saliva.

NOTE.—Maxil is more easily applied than vaseline, and cleaner in use.

		s.	*d.*
PRICE	per stick	1	0

Send for our Booklet on Cements; it contains a great deal of useful information.

ASH'S C. A. S. CEMENT.

(OXYPHOSPHATE OF ZINC.)

Supplied in the following six shades :

White, Pale Yellow, Yellow, Pearl Grey, Grey, Brown.

NOTED FOR THE FOLLOWING QUALITIES:

Easy Working — Tenacity — Stability — Imperviousness — Enamel-like Surface—Hardness and Edge Strength ; and we claim that

It is unsurpassed by any Cement of the Oxyphosphate Class in the Market.

ASH'S C. A. S. CEMENT—*continued.*

DIRECTIONS FOR USE:

Put a small quantity of the Liquid on a clean glass slab, place enough Powder near it but not in it, mix the two together by drawing a little Powder at a time into the Liquid, with a stiff bone spatula, until it is all incorporated, and then thoroughly knead the mass with the spatula. **It may here be stated that the more perfect the combination of the Powder and Liquid is, and the more the Cement is thoroughly kneaded with the spatula, the better the filling will be.**

The only precaution to be observed is this: The cavity must be kept quite dry and protected from moisture while the filling is being inserted and until it is finished and polished.

After the filling is completed, it is not necessary to protect it with a covering of wax or varnish; in this respect C. A. S. Cement differs essentially from all other Cements of its class.

		s.	d.
Box containing one bottle Liquid and 30 grammes Powder, per box		5	0
Separately	Powder . . . . . per bottle	3	0
	Liquid . . . . . „	2	0
Box containing large bottle Liquid and 50 grammes Powder, per box		8	0
Separately	Powder . . . . . per bottle	5	0
	Liquid . . . . . „	3	0
Box containing two bottles Liquid and four 10-gramme bottles Powder—White, Pale Yellow, Yellow, Pearl Grey . per box		8	0
Separately	Powder . . . . . per bottle	2	0
	Liquid . . . . . „	1	0

Sample packet, post free, on application.

NOTE.—The Liquid does not become turbid with age. To preserve its qualities unimpaired, it should be kept well corked when not in use.

ASH'S PHOSPHATE CEMENT.

(OXYPHOSPHATE OF ZINC.)

This Cement is unsurpassed by any filling of its class, and has grown largely and steadily in favour since its introduction. We can recommend it with the fullest confidence as a preparation that can be relied on in all cases in which the employment of an Oxyphosphate is suitable. It is devoid of irritating chemical action, is not affected by contact with saliva, and can be contoured and modelled when quite submerged. Prepared in the following five shades :—

A—PALE YELLOW. B—PALE GREY. C—LIGHT YELLOWISH GREY.
D—DARK YELLOWISH GREY. E—GREENISH GREY.

		s.	d.
Powder and Liquid in box, large size . . .	per packet	6	0
Separately Powder only	per bottle	3	0
Separately Liquid „	„	3	0
Packet containing 4 Powders, small size, and one Liquid, large size	per packet	8	0
Separately Powder only	per bottle	1	0
Separately Liquid „	„	4	0

ASH'S ROCK CEMENT.

(OXYCHLORIDE OF ZINC.)

This well-known Stopping is very easily worked, and when mixed to the consistency of putty becomes hard in two minutes, and in six or eight can be polished with an agate burnisher. If not required to set so quickly it should be mixed a little thinner. The powder being very fine will take a high polish.

Prepared in five shades as under :—

A—WHITE. B—PALE YELLOW. C—DARK YELLOW.
D—PALE BLUE. E—DARK GREY.

		s.	d.
Powder and Liquid in box, large size. . .	per packet	6	0
Separately Powder only	per bottle	3	0
Separately Liquid „	„	3	0
Packet containing 3 Powders, small size, and one Liquid, large size	per packet	8	0

ASH'S EXCELSIOR CEMENT.

(OXYPHOSPHATE OF ZINC.)

Excelsior Cement is non-irritating, and adheres so firmly to the walls of the cavity that it makes a perfectly water-tight plug.

The powder is fine and soft, and the liquid does not crystallize. The colour of the powder is a whitish yellow.

		s.	d.
Packet, containing 35–40 grammes of Powder, one bottle of Liquid, and two tubes of Colouring Matter	per packet	6	0
Separately Powder	per bottle	4	0
Separately Liquid	„	2	0

ASH'S OXYCHLORIDE OF ZINC CEMENT.

FOR FILLING ROOT-CANALS, AND FOR CAPPING DRESSINGS.

Writing in the *Dental Review*, Dr. N. S. Jenkins, of Dresden, describes Oxychloride of Zinc as the Root-Canal Filling *par excellence*. He says: "Years ago I came to the conclusion that there could be no more pernicious material for the filling of roots than cotton, however well it might be saturated with antiseptics.* Accordingly I began a series of experiments with zinc oxychloride, as being presumably the most manageable and least objectionable material. After an experience of nearly thirty years I am able to assert that a root-canal, whatever its original condition may have been, which has been brought into a healthy condition, and perfectly filled with zinc oxychloride, retains its colour and its health and is absolutely destitute of the faintest odour if you cut it out twenty-five years afterwards."

	s.	d.
PRICE per packet, with directions for use	4	0

* Dr. Jenkins evidently refers to *absorbent* cotton, which should never be used for filling roots or for dressings. Non-absorbent cotton cannot become foul, for the simple reason that it will not absorb anything.—C. A. & S.

DIRIGO ENAMEL CEMENT

(Dr. J. LEON WILLIAMS'.)

A NON-CONDUCTING AND ANTISEPTIC OXYPHOSPHATE.

A Non-Conducting & Antiseptic Oxyphosphate
Dirigo Enamel Cement
Prepared under the Direction of
Shade A J. Leon Williams, D.D.S. L.D.S.
Claudius Ash & Sons, Limited.
Broad St. Golden Square, London, England.
Branches:
Liverpool, Manchester, Paris, Berlin, Vienna, Hamburg, Copenhagen, St. Petersburg and New York.

Recommended for its wearing properties, its fitness for setting Crowns and Bridges, also as an Antiseptic and Non-Conducting Cement for use in deep cavities and in sensitive teeth, and as a lining for amalgam fillings.

Supplied *Quick-Setting* and *Slow-Setting* in the following shades:—

A—White. **C**—Light Grey.
B—Light Yellow. **D**—Dark Grey.

			s.	d.
Powder and Liquid, any shade, with bottle of Antiseptic Germicide, a supply of Asbestos Paper, and directions for use		per pkt.	10	0
„ „ minus Germicide and Asbestos Paper		„	8	6
Separately	Powder, any shade	per bot.	5	6
	Liquid	„	3	0
Packets containing four small bottles Powder and one large bottle Liquid		per pkt.	10	6
Separately	Powder, any shade	per bot.	1	9
	Liquid	„	4	0

ASCHER'S ARTIFICIAL ENAMEL.

(PATENTED.)

Ascher's Artificial Enamel is a silicate preparation and must not in any way be compared to an oxyphosphate of zinc. The claims made for it are translucency, density, extraordinary hardness, and resistance to the fluids of the mouth. It is supplied in eight shades, card of which can be had on application.

		s.	d.
One-shade packet, consisting of Powder and Liquid, per packet		12	6
Separately	Powder . . . . . per bottle	10	0
	Liquid . . . . . „	2	6
Set of 4 smaller bottles Powder and 2 Liquid		30	0

Directions for use supplied with each packet.

SCHOENBECK'S SILICATE CEMENT.

Dr. Schoenbeck says: "By selecting the right colour and by a proper working, a stopping can be obtained which perfectly corresponds to the tooth **itself, and at the same time will give to it a natural, transparent appearance combined with the greatest firmness.** The material increases greatly in solidity through the influence of the saliva in the mouth."

The bottles should be kept well stoppered when not in use. Supplied in 11 shades, including pink.

		s.	d.
Large Powder and Liquid	per packet	10	0
Small „ „	„	5	6
Large Powder only	per bottle	7	0
Small „	„	3	10
Large Liquid only	„	3	0
Small „	„	1	8
Assorted Packets:			
A—Four small Powders and Liquid . .	per packet	18	0
B—Six „ „ . . .	„	27	0
C—Four large Powders and Liquid . .	„	36	0
D—Six „ „ . . .	„	54	0

Directions for use supplied with each packet.

HARVARDID.

A TRANSPARENT FILLING.

Harvardid is described as "a material for filling teeth which in appearance is entirely similar to the **enamel of the natural teeth**—fillings made with it are scarcely noticeable"; it is worked like Harvard Cement.

		s.	d.
One-shade packet	per packet	10	0
Harvardid Varnish, for coating fillings . .	per bottle	1	0

Directions for use are enclosed in each packet of Harvardid Enamel.

FLETCHER'S ARTIFICIAL DENTINE.

(OXYSULPHATE OF ZINC.)

Unequalled for the following purposes:—

Capping exposed pulps.
Supporting pericementitic teeth while perforating or removing hard fillings from them.
Fixing loosened teeth while filling them with gold.
Pressing the gum away from cervical margins.
Enclosing applications of all kinds in pulp and tooth treatment.
Fixing metallic caps over teeth in regulations.

It can be medicated to suit the needs of the case under treatment by incorporating a little appropriate antiseptic with the powder and liquid when mixing them together.

		s.	*d.*
Fletcher's Artificial Dentine	per packet	4	0
Separately { Powder	per bottle	3	6
{ Liquid in corked bottle . . .	„	0	6

Directions for use enclosed in each packet.

ASH'S IODOGEN.

FOR CAPPING PULPS AND FOR THE TREATMENT OF INFLAMED PULPS, ETC.

Iodogen is a formaldehyde preparation of great value in pulp treatment. It is extremely soothing to pain, a good non-conductor of heat, and eminently suited for use as a base for amalgam fillings.

		s.	*d.*
Small box, containing Powder and Liquid . .	per box	3	0
Large „ „ „ „ . .	„	5	0

Directions for use are enclosed in each box.

BALDOCK'S
ANTISEPTIC TOOTH DRESSING.

A nerve pain obtunder and germicide. This dressing has been successfully and extensively used since 1883. Its extraordinary penetrating properties, and the fact that all its component parts are in perfect solution, render its application both easy and certain. The offensive smell caused by diseased and suppurating pulps is *instantly* arrested. Invaluable in the conservative treatment of the pulp.

Supplied in glass-stoppered bottles, with directions for use.

		s.	*d.*
PRICE	per bottle	4	0

DRESSINGS, Etc.

		s.	*d.*
Mastic Cement, thick, for temporary stoppings . .	per bottle	0	6
„ „ thin, for fixing teeth, etc.	„	0	9
Sandarac Varnish, for coating osteo-stoppings. . .	„	0	10
Filmogen, for varnishing osteo-stoppings, for lining cavities, and for root-filling	per 1-oz. bottle	1	6
	„ 2-oz. „	2	9
Filmogen, with 10 per cent. Iodoform, for root-filling, etc.	„ 1-oz. „	1	9

ASH'S INLAY AND CROWN CEMENT.

(OXYPHOSPHATE OF ZINC.)

FEATURES:—Extra Tenacious; Extremely Dense; Very Durable; Non-Expanding; Highly Resistant to the Fluids of the Mouth.

This Oxyphosphate of Zinc Cement is specially prepared to meet the requirements of the Operator in Crown and Inlay Work. One of the most pressing wants which has been experienced in setting Crowns and Inlays has been a cement which does not expand so much during crystallisation as to raise the "bite" in the case of a Crown, or to disturb the fit in the case of an Inlay. The leading features of **Ash's Inlay and Crown Cement** are its unyielding tenacity, extreme density, and durability. It has the highest non-expanding qualities which it is possible to impart to a first-class osteoplastic cement, and resists in a

marked degree the destructive action of the oral fluids—qualities which not only prove its efficiency, but also ensure for an indefinite period the safe retention of Crowns and Inlays which are cemented in position with it. The powder is ground specially fine, which reduces the tendency to expansion and ensures thorough incorporation with the liquid. It can be thinly mixed without its tenacity being affected, hence it is specially adapted for cementing Inlays in position, and the surplus can be squeezed out to admit of the Inlay being brought into perfect contact with the cavity margins.

Supplied in the following Shades:—

WHITE, PALE YELLOW, YELLOW, PEARL GREY.

		s.	d.
One-Shade Packet, any Shade	per packet	3	0
Four-Shade Packet	„	10	0

CEMENT STOPPINGS,

VARIOUS.

		s.	d.
Caulk's Diamond Cement, as under:			
Four Colours and Liquid—Grey, Yellow, Medium, and Light	per packet	6	3
Two Colours and Liquid—Grey and Yellow	„	5	3
One Colour and Liquid—Grey, Yellow, Medium, or Light	„	3	2
Powder only, any colour, if supplied separately	per bottle	1	8
Liquid only, if supplied separately	„	1	8
Fletcher's Artificial Dentine—see page 48.			
Fletcher's Porcelain	per packet	6	0
Separately { Powder only	per bottle	4	0
Separately { „	2-oz. „	10	0
Separately { Paste only	per bottle	2	0
Fletcher's White Enamel	per packet	6	0
Separately { Powder only	per bottle	3	6
Separately { Liquid in corked bottle	„	1	0
„ Colouring Matter—Pink, Drab, or Blue	per tube	0	6
„ Copal Ether Varnish	per bottle	1	0
Formagen, for the treatment of sensitive teeth and diseased pulps	small pkt.	6	0
„ „ „ „ „	large „	10	0
Fossiline	per packet	6	6
Separately { Powder only	per bottle	3	0
Separately { Liquid „	„	3	6
Harvard Cement, in 12 shades	per packet	~~10~~	~~6~~
Poulson's Neue Mineral Plombe, in 12 shades:			
In packets containing 30 grammes Powder and necessary Fluid	„	7	6
Separately { Powder only, any shade	per bottle	3	9
Separately { Liquid „	„	3	9
In packets containing four shades Powder and one Fluid	per packet	10	0
Poulson's Phosphat-Plombe, in 5 shades:			
One-shade packet	„	5	0
Separately { Powder only	per bottle	2	6
Separately { Liquid „	„	2	6
Four-shade packet, Nos. 1, 3, 4, 5	per packet	7	6
Separately { Powder only	per bottle	1	0
Separately { Liquid „	„	3	6
Poulson's Granit-Plombe, in 6 shades:			
In packets containing Powder and Liquid	per packet	8	0
Separately { Powder only	per bottle	5	0
Separately { Liquid „	„	3	0
Pulpinoform, a Non-Conducting Formalin Cement	per packet	6	0
Weston's Insoluble Cement:			
One-shade packet	„	2	1
Two-shade „	„	3	2
Four-shade „	„	3	2
Liquid separately	per bottle	1	1

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DALL'S
GAUGED INLAY OUTFITS.

Partial Set Case.

	£	s.	d.
Full Set Case, complete	7	17	9

This case contains 100 Assorted Round Inlays, 50 Burs for Straight Handpiece and Right-Angle Attachment, 4 Special Burs, 1 Gauge, 2 Diamond Discs, 1 Mandrel, and Leather Case with ebony racks for Burs, and Boxes with glass lids for Inlays.

Partial Set Case, as illustrated	5	2	6

This case contains 100 Assorted Round Inlays, 12 Burs for Straight Handpiece, 2 Special Burs, 1 Gauge, 2 Diamond Discs, 1 Mandrel, and Leather Case with ebony rack for Burs, and Boxes with glass lids for Inlays.

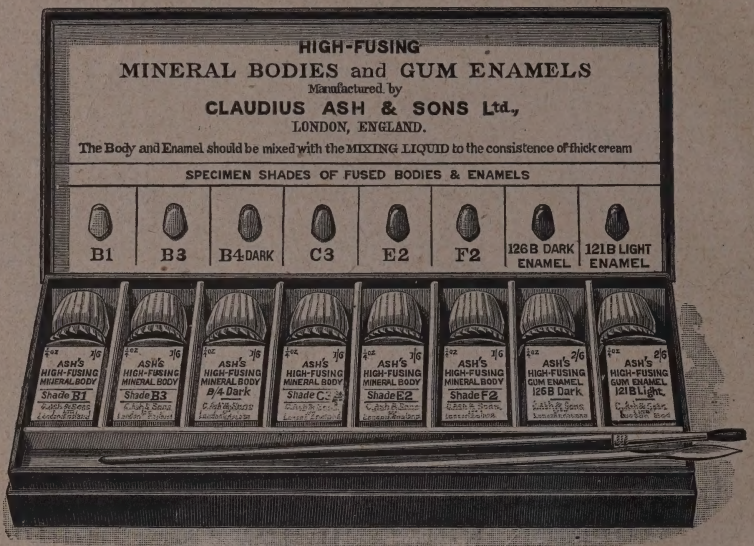
Sample Outfit	2	5	6

Consisting of 50 Assorted Round Inlays, 6 useful sizes of Burs for Straight Handpiece, 1 Special Bur, 1 Diamond Disc, 1 Mandrel, and Leather Case with ebony rack for Burs, and Boxes with glass lids for Inlays.

ASH'S HIGH AND LOW FUSING

MINERAL BODIES AND GUM ENAMELS.

Specially Prepared for Inlays and Crowns.



SUPPLIED IN THE FOLLOWING SHADES:

High-Fusing—Light part of, NB/1, B/1, B/3, C/2, E/2; dark part of, D/2, F/2.

Low-Fusing—Light part of, B/1, B/3, C/3, E/1, F/2; dark part of, B/2, D/2.

In boxes containing seven $\frac{1}{4}$-oz. bottles Body, one $\frac{1}{4}$-oz. bottle Gum Enamel, Spatula, and Camel-hair Pencil.

	s.	*d.*
Box of HIGH-FUSING, with 2-oz. bottle Mixing Liquid . .	15	0
„ **LOW-FUSING**, „ „ „ . .	15	0
Porcelain Enamels for tinting Teeth and Inlays . . per box	16	0
Ash's Enlarged Inlay and Crown Outfit, in Walnut Case, High-Fusing or Low-Fusing . . . . . complete	100	0

CLAUDIUS ASH, SONS & CO., Ltd.,

5 to 12, BROAD STREET, GOLDEN SQUARE,
LONDON, W.

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